

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

- Sub  
D1  
C1
1. (currently amended) ~~A system for controlling the operations of at least one implantable medical device ("IMD") via an external device in data communication with the IMD, the system comprising:~~  
at least one implantable medical device ("IMD") ~~IMD~~ providing therapy delivery, said IMD including a processor controlling the delivery of therapy to a patient; an external sensor module having at least one physiological sensor and operational to continuously collect physiological data of the patient; and said external sensor module continuously transmitting collected physiological data signals to the IMD;  
said IMD processor processing the physiological data to produce therapy delivery control signals in implementation ~~of~~ of dynamic closed loop self monitoring therapy delivery.
  2. (currently amended) The system of claim 1 wherein said at least one IMD is selected from the group consisting of a pacemaker, a defibrillator, a drug pump, and a neurological stimulator.
  3. (previously amended) The system of claim 1 wherein said external sensor module is selected from the group consisting of a wristwatch, a ring, a patch, and a sock.
  4. (previously amended) The system of claim 1 wherein said external sensor module transmits collected physiological data signals to the IMD over a communication channel including RF signals.

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5. (previously amended) The system of claim 1 wherein said physiological sensor is one selected from the group consisting of pressure, oxygen saturation, cardiac acceleration, flow sensing, heart auscultations, and intracardiac impedance.

6.-7. (cancelled)

8. (new) A method, comprising:  
providing therapy delivery using at least one implantable medical device ("IMD"),  
said IMD including a processor controlling the delivery of therapy to a patient;  
intermittently and automatically collecting physiological data of the patient using  
an external sensor module having at least one physiological sensor;  
substantially continuously transmitting the collected physiological data from said  
external sensor module to the IMD; and  
processing the collected physiological data to produce one or more therapy  
delivery control signals in a dynamic, closed-loop, self-monitoring therapy  
delivery regime.

9. (new) A method according to claim 8, wherein said at least one IMD comprises at least a one of: a pacemaker, a defibrillator, a drug pump, a deep brain stimulator, a neurological stimulator.

10. (new) A method according to claim 8, wherein said external sensor module comprises at least a one of: a wristwatch, a ring, a patch, a sock.

11. (new) A method according to claim 8, wherein said external sensor module transmits collected physiological data signals to the IMD over a communication channel including RF signals.

12. (new) A method according to claim 8, wherein said at least one physiological sensor comprises a one of: a pressure sensor, an oxygen saturation sensor, a cardiac

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acceleration sensor, a flow sensor, a heart auscultation sensor, an transthoracic impedance sensing apparatus.

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D1  
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13. (new) A computer readable medium for storing instructions for performing a method, comprising:

instructions for delivering a therapy via at least one implantable medical device ("IMD"), said IMD including a processor controlling the delivery of therapy to a patient;

instructions for intermittently and automatically collecting physiological data of the patient using an external sensor module having at least one physiological sensor;

instructions for substantially continuously transmitting the collected physiological data from said external sensor module to the IMD; and

instructions for processing the collected physiological data to produce one or more therapy delivery control signals in a dynamic, closed-loop, self-monitoring therapy delivery regime.